Seminar on Enterprise Software

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Goal

To help you to deliver a high-quality master thesis on time
Requirements for Pass Grade
first year students

• Attend at least
  – 2 out of the 3 introductory lectures
  – 4 out of the 5 presentation sessions (including “your” session)
• In due time:
  – Submit title of your literature review and name of the supervisor (22.September)
  – Submit a 2-page problem statement (6.October)
  – Present your topic
  – Submit your literature review draft (10.November)
• Score at least 3 out of 5 in each of the two evaluation criteria:
  – Quality of Presentation
  – Quality of Written Thesis Summary

Requirements for Pass Grade
second year students

• Attend at least
  – 2 out of the 3 introductory lectures
  – 4 out of the 5 presentation sessions (including “your” session)
• In due time:
  – Submit title of your thesis and name of the supervisor (22.September)
  – Submit a 2-page problem statement (6.October)
  – Present your topic
  – Submit your thesis draft (10.November)
• Score at least 3 out of 5 in each of the two evaluation criteria:
  – Quality of Presentation
  – Quality of Written Thesis Summary
Requirements for Pass Grade for the students on Erasmus leave

• In due time:
  – Submit title of your thesis and name of the supervisor (22. September)
  – Submit a 2-page problem statement (6. October)
  – Submit an intermediate version of their thesis (or research report) and a report on future activities (21. October)
  – Submit your thesis draft (4. November)
  – Submit the video of the thesis presentation (30. November)

• Score at least 3 out of 5 in each of the two evaluation criteria:
  – Quality of Presentation
  – Quality of Written Thesis Summary

Schedule

• 9 September, 23 September, 30 September
  – Introductory seminars
• 22 September - deadline for identifying title, supervisor and presentation time slot
• 6 October - deadline for a 2-page problem statement

• 4 November – student presentations start
  – 4 November, 18 November, 25 November,
    2 December, 9 December, 16 December
• 10 November - deadline for a draft thesis
Additional Rules

• In case of absence:
  – second chance possible only if you give advance notice and you justify your absence

• Failure in
  1) identifying title, supervisor and presentation time slot,
  or
  2) submitting 2-page problem statement

in due time results in grade "F"

• Thesis drafts must be submitted through course submission form on 10 November 2016 the latest
  – Otherwise a penalty of one point per 24-hour delay will be applied

Workload

3 ECTS = 78 hours of study

• Lectures – 18 hours
• Finding topic/supervisor – 4 hours
• Problem statement – 8 hours
• Preparing presentation – 14 hours
• Preparing thesis / literature review – 34 hours
Presentation

- Present the following:
  - The problem statement
  - Background
  - Review of the state of the art
  - Identified gaps in the state of the art
  - The expected contribution of the thesis given the identified gaps (objectives)

- Each student has a time-slot of 15 minutes: 12 minutes for the talk + 3 minutes for Q&A

Criteria for Evaluation of Presentation

- The lecturer will give a grade to your presentation based on the following criteria (one point per criterion):
  - **Slides**: Is the amount of text appropriate? Are figures and tables used appropriately where possible?
  - **Public speaking/oratory**: Is the posture appropriate? Is the voice level and intonation engaging? Is the gesturing appropriate? Is the rhythm engaging?
  - **Structure**: Is the structure of the presentation clear? Are the transitions between logical parts of the presentation clearly articulated?
  - **Content**: Does the presentation highlight the main points of the paper? Is the level of detail appropriate? Are examples used appropriately?
  - **Timeliness**: Does the presentation use the allocated time appropriately? Is the time limit respected?
Presentation Schedule and Allocation

• Course Website:
  – https://courses.cs.ut.ee/2016/enterprise/fall

• Message board:

Tips for your presentation

• Writing and presenting literature review (by K. Mahmood)
  – http://www.slideshare.net/kmahmood2/6-writing-and-presenting-literature-reviewkhalid

• Preparing Effective Oral Presentations in 7.17 Project lab

• Research skills

• Oral Presentation Skills
  – http://people.engr.ncsu.edu/txie/publications/oral_presentation_skills.pdf
Requirements for 2-page Problem Statement

• Outline the following:
  – Short overview
  – Main research question
  – More specific research questions
  – Objectives
  – The initial plan for the Masters project

• See also
  for a difference between research questions and objectives

Requirements for Thesis Draft

• The draft should contain the following
  – Title page
  – Abstract
  – Table of contents
  – Introduction / motivation (section „Introduction“)
  – Review of the state of the art (section „Related work“)
  – Summary of the technical background (section „Background“)
  – Placeholders for other sections (only (sub)section titles)
  – List of references

• The state of the art (literature review) includes research papers, prototypes, white papers and open-source / commercial tools (if applicable)

• The document should include well-formatted references

• The document should explain what gaps have been identified in the state of the art, and what is the expected contribution of the thesis given the identified state of the art

• The length of the literature review depends on the topic and the volume of relevant state of the art, but it should be roughly between 8 and 12 pages long
Evaluation of Thesis Drafts

• The lecturer will grade the drafts using the evaluation criteria 1-3 available at

• Additional rules
  – Draft contains a copy/paste of more than 10 consecutive words from any source → -1 point per copied fragment
  – Reproducing/re-drawing 1 or 2 pictures or tables is tolerated, if you explicitly cite the origin of the picture/table in the caption, else -1 point

Tips for Writing a Thesis


• 13 Ingredients of a Winning Thesis Proposal
• How theses get written: some cool tips
Next Introductory Seminars
23 September, 30 September

• Few more quick tips for presentation
• How to write 2 page problem statement?
• How to write introduction?
• How to write thesis?
• How to perform literature review?
• How bibliography needs to be organised?

Thesis of the previous year

• Jaanus Jaggo, Creating a recommendation model based on similar code segments (sup: Karus)
• Yevgenii Sabanin, Aspect/Feature-based Evaluation of Competing Apps (sup: Pfahl and Shah)
• Octavian Vinteler, Lightweight BPMN Execution Engine (sup: Banuelos)
• Andrey Sergeev, Role Based Access Control as SecureUML Model in Web Applications Development with Spring Security (sup: Matulevičius)
• Jakob Mass, An Adaptive Mediation Framework for Workflow Management in the Internet of Things (sup: Chang and Srirama)
• Ülari Laurson, Verification and Simplification of DMN Decision Tables (sup: Dumas and Teinemaa)